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UNIVERSITY OF TORONTO
UNIVERSITY EXTENSION

Session 1962-63

ORGANIC CHEMISTRY

offered in co-operation with the
CHEMICAL INSTITUTE OF CANADA

ORGANIC CHEMISTRY

Wednesdays **20 Lectures**

A survey course in recent developments in Organic Chemistry at the IV year undergraduate and I year graduate level. The lectures will cover such topics as stereochemistry, reaction mechanisms, molecular rearrangements and the uses of some of the newer instrumental techniques and synthetic methods.

LECTURER: Professor A. G. Brook,
Department of Chemistry,
University of Toronto.

TIME: 7:30 p.m., beginning October 10th

PLACE: Room 123, Wallberg Building

FEE: $50.00

Registration

By mail or in person at Room 201, 84 Queen's Park. 9 a.m. to 5 p.m. daily, except Saturdays. Application forms may be obtained by writing Business and Industry Courses, 84 Queen's Park, or by telephoning WAlnut 3-6611, locals 301, 304, 526, 527.

DESCRIPTION

Following a three- to four-lecture review of functional group organic chemistry, major emphasis will be given to recent developments in fields such as the following:

Stereochemistry

Review of geometric and optical isomerism; absolute configuration and methods of establishing relative configurations; conformational analysis; stereospecific syntheses.

Mechanisms of Organic Reactions

Review of general mechanisms of displacement reactions and of addition and elimination reactions; currently accepted mechanisms of rearrangements and reactions such as the pinacol, benzilic acid, Wagner-Meerwein, Diels-Alder, etc.; benzyne chemistry.

Instrumentation

The application of Nuclear Magnetic Resonance (N.M.R.) Optical Rotatory Dispersion (O.R.D.), and infrared to problems in organic chemistry.

Newer Synthetic Methods

The use of hydroborates and the other metal hydrides for special syntheses; uses of radioactive isotopes; organometallics; photochemistry.